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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/440,163	440,163 11/15/1999		MINORU IMURA	323810/98	2609	
21254	7590	12/16/2004		EXAM	EXAMINER	
MCGINN			SOBUTKA	SOBUTKA, PHILIP		
8321 OLD (SUITE 200		OUSE ROAD	ART UNIT	PAPER NUMBER		
VIENNA,	VA 2218	2-3817	2684			
				DATE MAILED: 12/16/2004	DATE MAILED: 12/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.		Applicant(s)					
Office Action Summary	09/440,163		IMURA, MINORU					
Office Action Summary	Examiner		Art Unit					
The MAILING DATE of this communication and	Philip J. Sobutka	shoot with the so	2684					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1) Responsive to communication(s) filed on 18 A	lovember 2004 .							
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-fir	nal.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠ Claim(s) 1,2,4-30 and 32-34 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>6-18 and 21-30</u> is/are allowed.								
6)⊠ Claim(s) <u>1,2,4,5,19,20 and 32-34</u> is/are rejected.								
7)⊠ Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on 15 November 1999 is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
1. ☐ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲	•	(PTO-413) Paper No(s) ratent Application (PTO-152)					

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. Claims 1,2,19,20,32-34 are rejected under 35 U.S.C. 102(e) as being anticipated by Bang et al (US 6,222,873).

Consider claims 1,33,34, Bang et al teaches a communication apparatus wherein transmission data containing first and second signal different from the first is transmitted comprising (Bang, control and communication signals see especially fig 7, col 10, lines 50-60): a transmission power controller for controlling at least one of transmission power of the first and second signals in such a manner that the transmission power of the first signal is made coincident with the transmission power of the second (Bang see especially col 10, lines 50-60); and a transmitter for transmitting the transmission data containing the first and second signals in the power controlled by the transmission power controller (Bang see fig 4). Note that Bang teaches one of the signals being the pilot (Bang see especially col 10, lines 50-60)

As to claim 19, the apparatus of Bang would perform the claimed steps.

As to claims 2,20, note that Bang teaches multiplying by a predetermined coefficient (Bang see especially col 10, lines 50-60).

As to claim 32, of course the total power is comprised of the power of the first and second signals.

Claim Rejections - 35 USC § 103

2. Claims 4,5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bang in view of Yoon (US 6,396,868).

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Consider claim 4. The nearest prior art as shown in Bang fails to teach the communication apparatus further comprising: interleave means for rearranging sequence of the data. Yoon teaches that it is well known to use interleaving to rearrange sequence of transmitted CDMA data (Yoon see especially col 6, lines 41-62). Yoon also teaches that use of interleaving can reduce interference to other users (Yoon see especially col 7, line 65 – col 8, line 8). It would have been obvious to one of ordinary skill in the art to modify Bang to use interleaving as taught by Yoon in order to prevent interference to other users.

Consider claim 5. The nearest prior art as shown in Bang fails to teach the communication apparatus further comprising: the first signal including a power control signal to control power of another apparatus. Note that it is well known in the art for a transmitter to control the power of a communicating radio with a power control signal in the forward transmission. Youn also teaches a power control signal being included in the forward channel (Youn see especially fig 2A, col 2, lines 15-35). It would have been obvious to one of ordinary skill in the art to modify Bang to include a power control signal in order to ensure that the output power of the second station was not excessive.

Allowable Subject Matter

3. Claims 6-11,12-18,21-30 are allowed.

Consider claims 6,21. The nearest prior art as shown in Bang fails to teach a method and apparatus for spreading a plurality of transmission data by employing different spreading codes to output spread signals, synthesizing the plurality of spread signals with each other to output a synthesized signal; outputting a predetermined

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coefficient; multiplying the synthesized signal by the coefficient, and transmitting the signal output from the multiplying unit.

Consider claim 12. The nearest prior art as shown in Bang fails to teach a CDMA communication apparatus in which, with a plurality of transmission data each having a data signal and a pilot signal, the pilot signal is spread with a first spreading code, the data signal is spread with a second spreading code and all of the spread transmission data are added to each other and the added data is transmitted comprising: controlling the transmission power of the transmission data by a transmission power control unit in such a way the transmission power of the pilot signal is made substantially equal to the transmission power of the data signal and transmitting the transmission data with the power controlled by the transmission power control unit.

Consider claim 25. The nearest prior art as shown in Bang fails to teach a CDMA communication method and apparatus in which, with a plurality of transmission data each having a data signal and a pilot signal, the pilot signal is spread with a first spreading code, the data signal is spread with a second spreading code and all of the spread transmission data are added to each other and the added data is transmitted comprising: controlling the transmission power of the transmission data by a transmission power control unit in such a way the transmission power of the pilot signal is made substantially equal to the transmission power of the data signal and transmitting the transmission data with the power controlled by the transmission power control unit.

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Response to Arguments

4. Applicant's arguments filed March 24, 2004 have been fully considered but they are not persuasive.

Applicant attempted to place claims in condition for allowance, however merely reciting power control of two signals where one is a pilot, based on measurements of the pilot alone does not overcome the previously cited art, compare to the reasons for allowance above for details.

Conclusion

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip J. Sobutka whose telephone number is 703-305-4825. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Philip Sobutka (703) 305-4825

December 10, 2004

NAY MAUNG SUPERVISORY PATENT EXAMINER